

## Title (en)

METHOD AND DEVICE FOR WEAVING THREE-DIMENSIONAL MULTI-AXIAL FABRIC DEPENDING ON RODS

## Publication

**EP 0484541 A4 19921111 (EN)**

## Application

**EP 91908186 A 19910426**

## Priority

- JP 9100577 W 19910426
- JP 11924090 A 19900509

## Abstract (en)

[origin: WO9117293A1] Means for weaving a three-dimensional multi-axial fabric by the use of rods, in which, during weaving while preventing the rods inserted along the weft direction from dropping by a dropping-preventive wall, a full length of the rod in the weft direction is positively used, effective beating-up is enabled by a simple structure, and a device for inserting weft-ward running rods is simplified. In weaving a three-dimensional multi-axial fabric (3), a plurality of weft-ward running rods (2a) are inserted by a rod-insertion device (15) along the slant direction toward a group of warp-ward running rods (1), and weft-ward running rods piercing through and beyond the group of warp-ward running rods are received by a fabric guide (24) composing a dropping-preventive wall. The fabric guide is formed into a cylinder, when viewed along the axial line of the warp-ward running rod, for embracing the fabric to be woven with a gap therebetween and for guiding the woven fabric. The weft-ward running rods are inserted through a portion outside the end of the fabric guide or a hole formed by cutting off a part of the guide. In this way, the rod insertion device need not be disposed spaced apart from the dropping-preventive wall and thus formation of said wall with the fabric guide is possible independent of the rod insertion device, whereby the length of the weft-ward running rod is fully used.

## IPC 1-7

**D03D 41/00**

## IPC 8 full level

**D03D 41/00** (2006.01); **D04H 3/07** (2012.01)

## CPC (source: EP US)

**D03D 41/004** (2013.01 - EP US); **Y10S 139/01** (2013.01 - EP US); **Y10S 428/902** (2013.01 - EP US); **Y10T 428/24091** (2015.01 - EP US); **Y10T 428/24124** (2015.01 - EP US); **Y10T 428/24174** (2015.01 - EP US)

## Citation (search report)

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- [A] US 4165355 A 19790821 - VASILOS THOMAS
- [A] US 4038440 A 19770726 - KING ROBERT W
- See references of WO 9117293A1

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KR100786915B1; DE4221195A1; US5273078A; DE4221195C2; US6889720B2; WO0166840A3

## Designated contracting state (EPC)

DE FR GB

## DOCDB simple family (publication)

**WO 9117293 A1 19911114**; DE 69121668 D1 19961002; DE 69121668 T2 19970403; EP 0484541 A1 19920513; EP 0484541 A4 19921111; EP 0484541 B1 19960828; HK 1007773 A1 19990423; JP H0418147 A 19920122; JP H0672340 B2 19940914; US 5228481 A 19930720

## DOCDB simple family (application)

**JP 9100577 W 19910426**; DE 69121668 T 19910426; EP 91908186 A 19910426; HK 98106999 A 19980626; JP 11924090 A 19900509; US 77885992 A 19920108